

**Practice**

For use with pages 119–124

**Tell whether the given value of the variable is a solution of the equation.**

**1.**  $6x - 7 = 17; x = 4$

**2.**  $1 = 4x + 9; x = -2$

**3.**  $8 - 3x = 5; x = -1$

**4.**  $-15 = -3x + 15; x = 5$

**5.**  $\frac{x}{5} - 6 = -2; x = 20$

**6.**  $-6 = \frac{x}{2} - 7; x = -2$

**Solve the equation. Check your solution.**

**7.**  $7x + 12 = 26$

**8.**  $2x + 9 = -5$

**9.**  $-4 = 9x + 23$

**10.**  $-10 = 6x - 16$

**11.**  $25 - 3x = -8$

**12.**  $4x - 15 = 25$

**13.**  $70 = 19 - 3x$

**14.**  $-2x - 47 = -11$

**15.**  $-14 = -22 - \frac{x}{3}$

**16.**  $\frac{x}{12} + 13 = 18$

**17.**  $-10 = 8 - \frac{x}{7}$

**18.**  $3 = \frac{x}{25} + 6$

**19.**  $250 = 124 - 3x$

**20.**  $-\frac{x}{9} - 12 = -23$

**21.**  $56 - \frac{x}{15} = 47$

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For use with pages 119–124

**Write the verbal sentence as an equation. Then solve the equation.**

- 22.** Fourteen minus the product of 3 and a number is 26.
- 23.** Negative seven minus the product of 5 and number is 28.
- 24.** Eleven minus the quotient of a number and 8 is 15.
- 25.** Negative sixteen plus the quotient of a number and 2 is 35.
- 26.** Thirty-nine minus a number is  $-19$ .
- 27.** Fifteen people volunteer for a park cleanup. The number of volunteers increases by 7 people each month for several months. After how many months will there be 50 volunteers?
- 28.** You have a \$100 gift card to spend at a store. You buy a portable compact disc player for \$45. Compact discs are on sale for \$11 each. How many compact discs can you buy with the money remaining on the gift card?
- 29.** A group of 4 friends are playing golf. The total cost of the round of golf is \$108. Each person in the group has the same coupon. The total cost of the round with the coupons is \$76. How much is the coupon worth?
- 30.** A school makes \$715 from ticket sales for a school play. From the ticket sales, \$448 is from adult tickets. Student tickets are \$3 each. How many students attended the play?
- 31.** You are rock climbing and descending a cliff at a rate of about 9 feet per minute. The cliff is about 360 feet high.
- a.** How long until you are at a height of 234 feet?
- b.** How long until you are halfway down the cliff?